



WATER MANAGEMENT DIVISION MONTHLY REPORT

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RESERVOIR OPERATION AND SYSTEM STATUS FOR OCTOBER 1999

HIGHLIGHTS – Cairo began the month at 11.14', ended at 11.55', and crested at 14.17' on the 11th. Normal stage for October is 17 feet.

WEATHER – The weather during October continued generally dry with near normal temperatures. A band of normal to above normal rainfall extended across Kentucky and West Virginia. With that as the only exception, the remainder of the basin averaged well below normal observed rainfall. With the southern progression of the polar front, we have returned to more near normal air masses and near normal temperatures.

The following table summarizes temperature and precipitation for October:

TEMPERATURE AND PRECIPITATION – OCTOBER 1999

STATION	TEMPERATURE		PRECIPITATION	
	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	52.3	-0.1	1.55	-0.81
Charleston, WV	54.8	-1.4	3.43	+0.54
Columbus, OH	55.3	+1.6	1.00	-1.15
Cincinnati, OH	55.3	+0.2	2.49	-0.37
Louisville, KY	58.9	+1.3	2.46	-0.25
Indianapolis, IN	55.2	+0.5	1.82	-0.81
Evansville, IN	56.6	-0.6	2.80	-0.07
Nashville, TN	59.9	-0.5	2.04	-0.58

STREAMFLOW -- Ohio River monthly average flows for October ranged from a low of 65

percent of normal at Evansville, IN to a high of 76 percent of normal at Huntington, WV. Daily flows ranged from a low of 20 percent of normal at Huntington, WV to a high of 176 percent of normal at Huntington.

The following table presents the flow data summary for October at the Ohio River Index Stations:

FLOW DATA – OCTOBER 1999

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND		HIGH	LOW
Pittsburgh, PA	8,510	71	148	41
Huntington, WV	18,645	76	176	20
Cincinnati, OH	20,032	74	132	29
Louisville, KY	20,968	74	174	36
Evansville, IN	21,548	65	118	21
Paducah, KY	58,419	71	107	51

RESERVOIRS -- October started with 0.9% utilization of the total system flood control storage and ended the month at 1.8%. System-wide augmentation storage increased from 80.7% at the beginning of the month to 83.4% by the end of the month. No significant flood storage utilization in excess of 25% occurred at any of the reservoir projects during October.

The following table depicts storage change by tributary reservoir subsystem for October:

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	-101,900
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	-64,400
Twelvepole-Big Sandy-Little Sandy-Scioto	-25,000
Little Miami-Licking-Mill Creek-Great Miami	-19,100
Kentucky-Salt-Green-Wabash	-140,200

Cumberland	656,800
TOTAL	306,200

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